

AMENDMENTS TO THE CLAIMS

Please amend Claims 1, 8 and 9, as follows:

1 1. (currently amended) A peritoneal dialysis system for a patient, comprising:
2 a peritoneal dialyzer that utilizes dialysate to remove impurities from the blood of
3 the patient;
4 a regenerated dialysate inlet tube leading into the peritoneal dialyzer and a spent
5 dialysate outlet tube leading out of the peritoneal dialyzer, said regenerated dialysate inlet tube
6 includes a side port for the infusion of a dialysate regenerating additive and
7 a sorbent section for regenerating the dialysate, wherein the sorbent section is
8 adapted to be worn on the body of a patient.

1 2. (withdrawn) The peritoneal dialysis system of claim 1, wherein the sorbent
2 section comprises at least one sorbent device wherein said at least one sorbent device is
3 connected in series.

1 3. (withdrawn) The peritoneal dialysis system of claim 2, wherein each of the at
2 least one sorbent device has a flexible casing adapted to conform to the body contour of the
3 patient.

1 4. (withdrawn) The peritoneal dialysis system of claim 2, wherein the number of
2 sorbent devices may be varied to reflect different dialysis prescriptions.

1 5. (cancel)

1 6. (cancel)

1 7. (withdrawn) The peritoneal dialysis system of claim 6, wherein the additives are
2 pumped into the dialysate from a plurality of additive reservoirs.

1 8. (currently amended) The peritoneal dialysis system of claim [[6]] 1, wherein the
2 rate of infusion of ~~each~~ said dialysate regenerating additive is controlled electronically.

1 9. (currently amended) The peritoneal dialysis system of claim [[6]] 1, wherein the
2 dialysate regenerating additive is ~~additives are~~ chosen from the group consisting of: sodium
3 citrate, calcium, potassium and sodium bicarbonate.

1 10. (withdrawn) The peritoneal dialysis system of claim 5, wherein the spent
2 dialysate tube leads into the plurality of sorbent devices and the regenerated dialysate tube leads
3 out of the plurality of sorbent devices.

1 11. (withdrawn) The peritoneal dialysis system of claim 2, wherein the at least one
2 sorbent-device comprises replaceable cartridges.

1 12. (withdrawn) The peritoneal dialysis system of claim 11, wherein the replaceable
2 cartridges include more than one of activated charcoal, urease, zirconium phosphate, hydrous
3 zirconium oxide and activated carbon.

1 13. (withdrawn) The peritoneal dialysis system of claim 2, wherein the at least one
2 sorbent-device are connected in parallel.

1 14.-25. (canceled)